



The National Children's Study Brookings, Yellow Medicine, Pipestone & Lincoln Counties (BYPL) Vanguard Center

Bonny Specker, Ph.D.
South Dakota State University



BYPL Vanguard Center

SDSU INVESTIGATORS

Bonny Specker, PhD (*SDSU PI*)

Kevin Dalsted, MS

Nancy Fahrenwald, RN, PhD

Donna Hess, PhD

Diane Kayongo-Male, PhD

Andrew Stremmel, PhD

Matthew Vukovich, PhD

Ann Wilson, Ph.D.

Expertise

Pediatric & Nutritional Epidemiology

Environmental Monitoring

Community Nursing

Rural Sociology

Rural Sociology

Human Development

Exercise Physiology

Human Development



BYPL Vanguard Center



LOCAL ADVISORS & CONSULTANTS

Richard Adcock, MBA

Jeffrey Boyle, MD

Lawrence Fenton, MD

Haugen-Rogers, Jan

Julie Johnson, MD

Brad Randall, MD

Dennis Stevens, MD, MPH

Expertise

Children's Specialty Clinics

Perinatology

Pediatrics

Women's & Children's Services

Disabilities & Rehabilitation

Forensic Pathology & Coroner

Neonatology



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CINCINNATI CHMC INVESTIGATORS

Bruce Lanphear, MD, MPH
(CHMC PI)

Robert Kahn, MD, MPH

Heidi Kalkwarf, PhD, RD

Kim Yolton, PhD

Richard Hornung, PhD

Expertise

Pediatric Environmental Epidemiology

Pediatric Epidemiology

Nutritional Epidemiology

Developmental Psychology

Environmental Epi & Biostatistics



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CINCINNATI CHMC - TIER II

Expertise

Frank Biro, MD

Steve Chernausek, MD

Lisa Martin, PhD

Ardythe Morrow, PhD

Kieran Phelan, MD, MS

Doug Ris, PhD

Marsha Wills-Karp, PhD

Adolescent Medicine

Pediatric Endocrinology

Genetic Epidemiology

Pediatric Infectious Disease Epidemiology

Pediatric Injury Epidemiology

Pediatric Neuropsychology

Pediatric Allergy & Immunology



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UNIV OF CINCINNATI

Grace LeMasters, PhD (*UC PI*)

Kim Dietrich, PhD

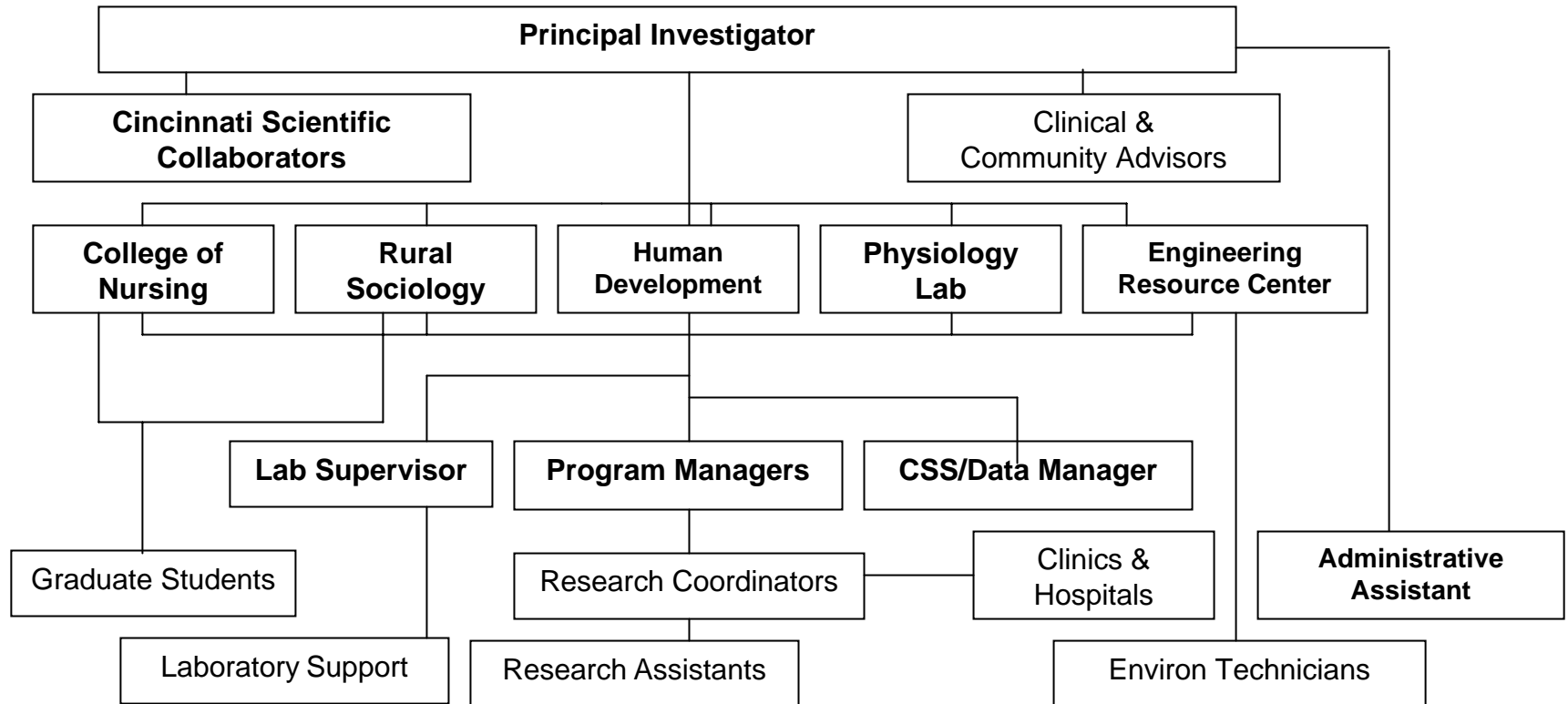
Expertise

Environmental & Perinatal Epidemiology

Environmental & Behavioral Epidemiology



BYPL Vanguard Center Organizational Structure



BYPL Vanguard Center Population Characteristics



Characteristic	Brookings	Yellow Medicine	Pipestone	Lincoln	Total
Population	28,392	10,677	9,681	6,159	54,909
Square Miles	794	758	466	537	2,555
Population Density (#/mi²)	36	14	21	12	21
Urban					
% Inside urbanized areas ^a	0%	0%	0%	0%	0%
% Inside urban clusters ^b	69%	18%	42%	0%	44%
Rural					
Farm ^c (%)	6%	18%	17%	23%	12%
Non-Farm ^d (%)	28%	64%	42%	77%	44%

a urbanized area: > 50,000 people

b urban cluster: 2,500-49,999 people (**Brookings largest city: est. 2004 population = 18,700**)

c rural farm: operating, open country farms & ranches

d rural non-farm = places under 2,500 population & people living in open country (not engaged in farming or ranching)

Data from US Census, 2000



BYPL Vanguard Center Population Characteristics



Characteristic	Brookings	Yellow Medicine	Pipestone	Lincoln	Total
Women Aged 18-39 Years	6,029	1,291	1,214	707	9,241
Median Age (y)	27	40	40	43	-
Households	11,576	4,873	4,434	3,043	23,926
Total Resident Births (2003)	309	131	106	75	621
Inside of County	177	61	52	10	300
Outside of County**	132	70	54	65	321
Non-Hispanic White	96%	95%	96%	98%	96%
Median Household Income	\$35,438	\$34,393 *	\$31,909 *	\$31,607 *	-
Persons Below Poverty (%)	14% ^	10% ^	10% ^	10% ^	12%

* indicates lower than state average

^ indicates higher than state average

** majority in Sioux Falls

Data from US Census, 2000



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Agriculture is the main
economy



BYPL Vanguard Center

- Relatively stable population
- Strong sense of community
- Diverse communities:
 - Hutterites
 - Lakota Nation
 - Ethnic groups



BYPL Vanguard Center Population Characteristics



Characteristic	Brookings	Yellow Medicine	Pipestone	Lincoln	Total
High School Graduates	90% ^	82% *	78% *	80% *	85%
Bachelor's Degree	32% ^	14% *	14% *	14% *	23%
# of Elementary Schools	7	4	6	2	19
# of Secondary & High Schools	8	3	3	3	17
# of Religious Institutions	49	32	31	25	137
Affiliated with a Church	61%	91%	99%	93%	77%

* indicates lower than state average

^ indicates higher than state average

Data Source: *Religious Congregations & Membership in the US & US Census, 2000*



BYPL Vanguard Center Challenges



...where the women are strong,
the men are good-looking,
and the children are all above-average

Garrison Keilor, "Lake Wobegon"

